

In the Claims:

1. (original) A refractory composition consisting essentially of:
  - (a) a magnesia based refractory material;
  - (b) sulfamic acid; and
  - (c) from about 1.0 percent by weight of total refractory composition to about 8.0 percent by weight of total refractory composition calcia, wherein the calcia is selected from the group consisting of calcium oxide and calcium hydroxide.
2. (canceled) The refractory composition of Claim 1 wherein the calcia is selected from calcium hydroxide or calcium oxide.
3. (original) The refractory composition of Claim 2 wherein the calcia is selected from calcium hydroxide.
4. (original) The refractory composition of Claim 2 wherein the calcia source is calcium oxide.
5. (canceled) The refractory composition of Claim 3 wherein the calcium hydroxide concentration is from about 1.0 percent to about 8.0 percent by weight of the total refractory composition.
6. (original) The refractory composition of Claim 3 wherein the calcium hydroxide concentration is from about 3.0 percent to about 5.0 percent by weight of the total refractory composition.
7. (original) The refractory composition of Claim 3 wherein the calcium hydroxide concentration is from about 3.5 percent to about 4.5 percent by weight of the total refractory composition.

8. (canceled) The refractory composition of Claim 4 wherein the calcium oxide concentration is from about 1.0 percent to about 8.0 percent by weight of the total refractory composition.
9. (original) The refractory composition of Claim 4 wherein the calcium oxide concentration is from about 3.0 percent to about 5.0 percent by weight of the total refractory composition.
10. (currently amended) The refractory composition of Claim 4 wherein the calcium hydroxide oxide concentration is from about 3.5 percent to about 4.5 percent by weight of the total refractory composition.
11. (original) The refractory composition of Claim 1 wherein the sulfamic acid is from about 1.0 percent by weight to about 5.0 percent by weight of the total refractory composition.
12. (currently amended) The refractory composition of Claim 4 11 wherein the sulfamic acid is from about 2.0 percent by weight to about 4.0 percent by weight of the total refractory composition.
13. (currently amended) The refractory composition of Claim 4 12 wherein the sulfamic acid is from about 2.5 percent by weight to about 3.5 percent by weight of the total refractory composition.
14. (canceled) The refractory composition of Claim 4 3 wherein the sulfamic acid is from about 1.0 percent to about 5.0 percent by weight of the refractory composition and the calcium hydroxide is from about 1.0 percent to about 8.0 percent by weight of the total refractory composition.
15. (currently amended) The refractory composition of Claim 4 3 wherein the sulfamic acid is from about 2.0 percent to about 4.0 percent by weight of the refractory composition and the

calcium hydroxide is from about 3.0 percent to about 5.0 percent by weight of the refractory composition.

16. (currently amended) The refractory composition of Claim + 3 wherein the sulfamic acid is from about 2.5 percent to about 3.5 percent by weight of the refractory composition and the calcium hydroxide is from about 3.5 percent to about 4.5 percent by weight of the refractory composition.

17. (currently amended) The refractory composition according to Claim + 4 wherein the sulfamic acid is from about 1.0 percent to about 5.0 percent by weight of the refractory composition and calcium oxide is from about 1.0 percent to about 8.0 percent by weight of the refractory composition.

18. (currently amended) The refractory composition according to Claim + 17 wherein the sulfamic acid is from about 2.0 percent to about 4.0 percent by weight of the refractory composition and calcium oxide is from about 3.0 percent to about 5.0 percent by weight of the refractory composition.

19. (currently amended) The refractory composition according to Claim + 18 wherein the sulfamic acid is from about 2.5 percent to about 3.5 percent by weight refractory composition and calcium oxide is from about 3.5 percent by weight to about 4.5 percent by weight of the refractory composition.

20. (original) A refractory gunning composition consisting essentially of:

a) a magnesia-based refractory;

b) sulfamic acid;

c) from about 1.0 percent by weight total refractory composition to about 8.0 percent by weight total refractory composition calcia, wherein the calcia is selected from the group consisting of calcium oxide and calcium hydroxide; and,

d) a wetting agent.

21. (canceled) The refractory gunning composition according to Claim 20 wherein the calcia is calcium hydroxide or calcium oxide.

22. (original) The refractory gunning composition according to Claim 21 wherein the calcia is calcium hydroxide.

23. (original) The refractory gunning composition according to Claim 21 wherein the calcia is calcium oxide.

24. (original) The gunning composition according to Claim 20 wherein the sulfamic acid is from about 1.0 percent to about 5.0 percent by weight of the gunning composition; calcia is from about 1.0 percent to about 8.0 percent by weight of the gunning composition; and, the wetting agent is from about 0.05 percent to about 0.5 percent by weight of the gunning composition.

25. (currently amended) The gunning composition of Claim 20 24 wherein the sulfamic acid is from about 1.0 percent by weight to about 5.0 percent by weight gunning composition; the calcium hydroxide is in an amount of is from about 1.0 percent to about 8.0 percent by weight of the gunning composition is calcium hydroxide; and, the wetting agent is from about 0.05 percent to about 0.5 percent by weight of the gunning composition is a wetting agent.

26. (currently amended) The gunning composition according to Claim 20 25 wherein the sulfamic acid is from about 2.0 percent to about 4.0 percent by weight of the gunning composition; calcium hydroxide is from about 3.0 percent to about 5.0 percent by weight of the gunning composition; and, a wetting agent from about 0.05 percent to about 0.5 percent by weight of the gunning composition.

27. (currently amended) The gunning composition according to Claim 20 26 wherein the sulfamic acid is from about 2.5 percent to about 3.5 percent by weight of the gunning composition; calcium hydroxide from about 3.5 percent to about 4.5 percent by weight of the gunning composition; and, a wetting agent from about 0.05 percent to about 0.5 percent by weight of the gunning composition.
28. (currently amended) The gunning composition according to Claim 20 23 wherein the sulfamic acid is from about 1.0 percent to about 5.0 percent by weight of the gunning composition; calcium oxide is from about 1.0 percent to about 8.0 percent by weight of the gunning composition; and, a wetting agent from about 0.05 percent to about 0.5 percent by weight of the gunning composition.
29. (currently amended) The gunning composition according to Claim 20 28 wherein the sulfamic acid is from about 2.0 percent to about 4.0 percent by weight of the gunning composition; calcium oxide from about 3.0 percent to about 5.0 percent by weight of the gunning composition; and, a wetting agent from about 0.05 percent to about 0.5 percent by weight of the gunning composition.
30. (currently amended) The gunning composition according to Claim 20 29 wherein the sulfamic acid is from about 2.5 percent to about 3.5 percent by weight of the gunning composition; calcium oxide from about 3.5 percent to about 4.5 percent by weight of the gunning composition; and, a wetting agent from about 0.05 percent to about 0.5 percent by weight of the gunning composition.
31. (original) The gunning composition according to Claim 20 wherein the wetting agent is selected from the group consisting of a super plasticizer, anionic surfactant, cationic surfactant, nonionic surfactant and dispersant.

32. (original) The gunning composition according to Claim 31 wherein the super plasticizer is selected from the group consisting of a sulfonated naphthalene condensate, polycarboxylic ether and maleic acid copolymer.

33. (original) The gunning composition according to Claim 32 wherein the super plasticizer is a sulfonated naphthalene condensate.

34. (original) A method of forming a monolithic refractory lining on a metallurgical vessel, comprising gunning onto at least a portion of the inside surface of the vessel the composition of Claim 20.